Claims

1. A compound of formula (I),

$$\begin{array}{c|c}
R^1 & & \\
Q = X & & \\
-(CH_2)_n & \\
Z - (C(R^3)_2)_{\overline{t}} & A
\end{array}$$
(I)

the N-oxide forms, the pharmaceutically acceptable addition salts and the stereo-chemically isomeric forms thereof, wherein

n is 0, 1, 2 or 3 and when n is 0 then a direct bond is intended;

t is 0, 1, 2, 3 or 4 and when t is 0 then a direct bond is intended;

each Q is nitrogen or —

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each X is nitrogen or —C

each Y is nitrogen or

20 each Z is nitrogen or

 R^1 is $-C(O)NR^7R^8$, $-NHC(O)R^9$, $-C(O)-C_{1-6}$ alkanediylSR 9 , $-NR^{10}C(O)N(OH)R^9$, $-NR^{10}C(O)C_{1-6}$ alkanediylSR 9 , $-NR^{10}C(O)C=N(OH)R^9$ or another Zn-chelating-group

wherein R⁷ and R⁸ are each independently selected from hydrogen, hydroxy, C₁₋₆alkyl, hydroxyC₁₋₆alkyl, aminoC₁₋₆alkyl or aminoaryl; R⁹ is independently selected from hydrogen, C₁₋₆alkyl, C₁₋₆alkylcarbonyl, arylC₁₋₆alkyl, C₁₋₆alkylpyrazinyl, pyridinone, pyrrolidinone or methylimidazolyl; R¹⁰ is independently selected from hydrogen or C₁₋₆alkyl;

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 R^2 is hydrogen, halo, hydroxy, amino, nitro, C_{1-6} alkyl, C_{1-6} alkyloxy, trifluoromethyl, di(C_{1-6} alkyl)amino, hydroxyamino or naphtalenylsulfonylpyrazinyl;

-L- is a direct bond or a bivalent radical selected from C_{1-6} alkanediyl, C_{1-6} alkanediyloxy, amino, carbonyl or aminocarbonyl;

each R3 independently represents a hydrogen atom and one hydrogen atom can be replaced by a substituent selected from aryl;

R⁴ is hydrogen, hydroxy, amino, hydroxyC₁₋₆alkyl, C₁₋₆alkyl, C₁₋₆alkyloxy, arylC₁₋₆alkyl, aminocarbonyl, hydroxycarbonyl, aminoC₁₋₆alkyl, aminocarbonylC₁₋₆alkyl, hydroxycarbonylC₁₋₆alkyl, hydroxyaminocarbonyl, C₁₋₆alkyloxycarbonyl, C₁₋₆alkylaminoC₁₋₆alkyl or di(C₁₋₆alkyl)aminoC₁₋₆alkyl;

is a radical selected from 10 (a-1) (a-7) (a-6) (a-10) (a-9)(a-14) (a-15) (a-16) (a-13)

$$(a-18)$$
 $(R^6)_s$ $(R^6)_s$ $(R^6)_s$ $(a-20)$

(a-21)

5

(a-28)

(a-25)

(a-29)

(a-30)

$$(a-31)$$

$$(R^6)_s$$

$$S$$

$$N$$

(a-32)

(R⁶)_s

10

$$(a-41) \qquad (a-42) \qquad (a-43) \qquad (a-44)$$

$$(a-41) \qquad (a-42) \qquad (a-43) \qquad (a-44)$$

$$(a-45) \qquad (a-46) \qquad (a-47) \qquad (a-48)$$

$$(a-49) \qquad (a-50) \qquad (a-51)$$

wherein each s is independently 0, 1, 2, 3, 4 or 5;

 $hydroxyC_{1-6}alkylpiperazinylC_{1-6}alkyl$,

each R⁵ and R⁶ are independently selected from hydrogen; halo; hydroxy; amino; nitro; trihaloC₁₋₆alkyl; trihaloC₁₋₆alkyloxy; C₁₋₆alkyl; C₁₋₆alkyl substituted with aryl and C_{3-10} cycloalkyl; C_{1-6} alkyloxy; C_{1-6} alkyloxy C_{1-6} alkyloxy; C_{1-6} alkyloxy; C_{1-6} alkyloxy; 10 C_{1-6} alkyloxycarbonyl; C_{1-6} alkylsulfonyl; cyano C_{1-6} alkyl; hydroxy C_{1-6} alkyl; $hydroxyC_{1-6}alkyloxy$; $hydroxyC_{1-6}alkylamino$; $aminoC_{1-6}alkyloxy$; $di(C_{1-6}alkyl)$ aminocarbonyl; $di(hydroxyC_{1-6}alkyl)$ amino; $(aryl)(C_{1-6}alkyl)$ amino; $di(C_{1\text{-}6}alkyl)aminoC_{1\text{-}6}alkyloxy; di(C_{1\text{-}6}alkyl)aminoC_{1\text{-}6}alkylamino;\\$ $di(C_{1\text{-}6}alkyl)aminoC_{1\text{-}6}alkylaminoC_{1\text{-}6}alkyl;\ arylsulfonyl;\ arylsulfonylamino;$ aryloxy; aryloxy C_{1-6} alkyl; aryl C_{2-6} alkenediyl; di(C_{1-6} alkyl)amino; $di(C_{1\text{-}6}alkyl)aminoC_{1\text{-}6}alkyl;\ di(C_{1\text{-}6}alkyl)amino(C_{1\text{-}6}alkyl)amino;$ $di(C_{1\text{-}6}alkyl)amino(C_{1\text{-}6}alkyl)aminoC_{1\text{-}6}alkyl;$ $di(C_{1-6}alkyl)aminoC_{1-6}alkyl(C_{1-6}alkyl)amino;$ $di(C_{1-6}alkyl)aminoC_{1-6}alkyl(C_{1-6}alkyl)aminoC_{1-6}alkyl;$ 20. aminosulfonylamino(C₁₋₆alkyl)amino; aminosulfonylamino(C₁₋₆alkyl)aminoC₁₋₆alkyl; $di(C_{1\text{-}6}alkyl)aminosulfonylamino(C_{1\text{-}6}alkyl)amino;\\$ $\label{eq:continuous} \mbox{di}(C_{1\mbox{-}6} \mbox{alkyl}) a \mbox{mino} C_{1\mbox{-}6} \mbox{alkyl}; \mbox{ cyano; thiophenyl};$ thiophenyl substituted with $di(C_{1-6}alkyl)aminoC_{1-6}alkyl(C_{1-6}alkyl)aminoC_{1-6}alkyl,$ 25 $di(C_{1\text{-}6}alkyl)aminoC_{1\text{-}6}alkyl,\ C_{1\text{-}6}alkylpiperazinylC_{1\text{-}6}alkyl,$

 $hydroxyC_{1\text{-}6}alkyloxyC_{1\text{-}6}alkylpiperazinylC_{1\text{-}6}alkyl,$

di(C₁₋₆alkyl)aminosulfonylpiperazinylC₁₋₆alkyl,

 $C_{1\text{-}6} alkyloxypiperidinyl, C_{1\text{-}6} alkyloxypiperidinyl C_{1\text{-}6} alkyl, morpholinyl C_{1\text{-}6} alkyl, hydroxy C_{1\text{-}6} alkyl) amino C_{1\text{-}6} alkyl, or di(hydroxy C_{1\text{-}6} alkyl) amino C_{1\text{-}6} alkyl;$

- furanyl; furanyl substituted with hydroxyC₁₋₆alkyl; benzofuranyl; imidazolyl; oxazolyl; oxazolyl substituted with aryl and C₁₋₆alkyl; C₁₋₆alkyltriazolyl; tetrazolyl; pyrrolidinyl; pyrrolyl; piperidinylC₁₋₆alkyloxy; morpholinyl; C₁₋₆alkyloxy; morpholinylC₁₋₆alkyloxy;
 - morpholinylC₁₋₆alkyl; morpholinylC₁₋₆alkylamino;
- morpholinylC₁₋₆alkylaminoC₁₋₆alkyl; piperazinyl; C₁₋₆alkylpiperazinyl;

 C₁₋₆alkylpiperazinylC₁₋₆alkyloxy; piperazinylC₁₋₆alkyl;

 naphtalenylsulfonylpiperazinyl; naphtalenylsulfonylpiperidinyl; naphtalenylsulfonyl;

 C₁₋₆alkylpiperazinylC₁₋₆alkyl; C₁₋₆alkylpiperazinylC₁₋₆alkylpiperazinylC₁₋₆alkylpiperazinylSulfonyl;

 C₁₋₆alkylpiperazinylC₁₋₆alkylaminoC₁₋₆alkyl; C₁₋₆alkylpiperazinylsulfonyl;
- aminosulfonylpiperazinyl C_{1-6} alkyloxy; aminosulfonylpiperazinyl; aminosulfonylpiperazinyl C_{1-6} alkyl; di $(C_{1-6}$ alkyl)aminosulfonylpiperazinyl; di $(C_{1-6}$ alkyl)aminosulfonylpiperazinyl C_{1-6} alkyl; hydroxy C_{1-6} alkylpiperazinyl C_{1-6} alkyl; C_{1-6} alkyloxypiperidinyl; C_{1-6} alkyloxypiperidinyl C_{1-6} alkyl; piperidinylamino C_{1-6} alkylamino;
- piperidinylaminoC₁₋₆alkylaminoC₁₋₆alkyl; (C₁₋₆alkylpiperidinyl)(hydroxyC₁₋₆alkyl)aminoC₁₋₆alkylamino; (C₁₋₆alkylpiperidinyl)(hydroxyC₁₋₆alkyl)aminoC₁₋₆alkylaminoC₁₋₆alkyl; hydroxyC₁₋₆alkyloxyC₁₋₆alkylpiperazinyl; hydroxyC₁₋₆alkyloxyC₁₋₆alkylpiperazinylC₁₋₆alkyl;
- (hydroxyC₁₋₆alkyl)(C₁₋₆alkyl)amino; (hydroxyC₁₋₆alkyl)(C₁₋₆alkyl)aminoC₁₋₆alkyl; hydroxyC₁₋₆alkylaminoC₁₋₆alkyl; di(hydroxyC₁₋₆alkyl)aminoC₁₋₆alkyl; pyrrolidinylC₁₋₆alkyl; pyrrolidinylC₁₋₆alkyloxy; pyrazolyl; thiopyrazolyl; pyrazolyl substituted with two substituents selected from C₁₋₆alkyl or trihaloC₁₋₆alkyl; pyridinyl; pyridinyl substituted with C₁₋₆alkyloxy, aryloxy or aryl; pyrimidinyl; tetrahydropyrimidinylpiperazinylC₁₋₆alkyl;
 - quinolinyl; indole; phenyl; phenyl substituted with one, two or three substituents independently selected from halo, amino, nitro, C_{1-6} alkyl, C_{1-6} alkyloxy, hydroxy C_{1-4} alkyl, trifluoromethyl, trifluoromethyloxy, hydroxy C_{1-4} alkyloxy, C_{1-4} alkyloxy C_{1-4} alkyloxy C_{1-4} alkyloxy C_{1-4} alkyloxy C_{1-4} alkyloxy, C_{1-4} alkyloxycarbonyl,
- aminoC₁₋₄alkyloxy, di(C₁₋₄alkyl)aminoC₁₋₄alkyloxy, di(C₁₋₄alkyl)amino, di(C₁₋₄alkyl)aminocarbonyl, di(C₁₋₄alkyl)aminoC₁₋₄alkyl, di(C₁₋₄alkyl)aminoC₁₋₄alkylaminoC₁₋₄alkyl, di(C₁₋₄alkyl)amino(C₁₋₄alkyl)amino, di(C₁₋₄alkyl)amino(C₁₋₄alkyl)aminoC₁₋₄alkyl,

$$\begin{split} &\text{di}(C_{1\text{-4}}\text{alkyl})\text{amino}C_{1\text{-4}}\text{alkyl}(C_{1\text{-4}}\text{alkyl})\text{amino},\\ &\text{di}(C_{1\text{-4}}\text{alkyl})\text{amino}C_{1\text{-4}}\text{alkyl}(C_{1\text{-4}}\text{alkyl})\text{amino}C_{1\text{-4}}\text{alkyl},\\ &\text{aminosulfonylamino}(C_{1\text{-4}}\text{alkyl})\text{amino},\\ &\text{aminosulfonylamino}(C_{1\text{-4}}\text{alkyl})\text{amino}C_{1\text{-4}}\text{alkyl}, \end{split}$$

- di(C₁₋₄alkyl)aminosulfonylamino(C₁₋₄alkyl)amino,
 di(C₁₋₄alkyl)aminosulfonylamino(C₁₋₄alkyl)aminoC₁₋₆alkyl, cyano,
 piperidinylC₁₋₄alkyloxy, pyrrolidinylC₁₋₄alkyloxy, aminosulfonylpiperazinyl,
 aminosulfonylpiperazinylC₁₋₄alkyl, di(C₁₋₄alkyl)aminosulfonylpiperazinyl,
 di(C₁₋₄alkyl)aminosulfonylpiperazinylC₁₋₄alkyl, hydroxyC₁₋₄alkylpiperazinyl,
- hydroxyC₁₋₄alkylpiperazinylC₁₋₄alkyl, C₁₋₄alkyloxypiperidinyl,

 C₁₋₄alkyloxypiperidinylC₁₋₄alkyl, hydroxyC₁₋₄alkyloxyC₁₋₄alkylpiperazinyl,

 hydroxyC₁₋₄alkyloxyC₁₋₄alkylpiperazinylC₁₋₄alkyl,

 (hydroxyC₁₋₄alkyl)(C₁₋₄alkyl)amino, (hydroxyC₁₋₄alkyl)(C₁₋₄alkyl)aminoC₁₋₄alkyl,

 di(hydroxyC₁₋₄alkyl)amino, di(hydroxyC₁₋₄alkyl)aminoC₁₋₄alkyl, furanyl, furanyl

 substituted with -CH=CH-CH=CH-, pyrrolidinylC₁₋₄alkyl, pyrrolidinylC₁₋₄alkyloxy,

 morpholinyl, morpholinylC₁₋₄alkyloxy, morpholinylC₁₋₄alkyl,

 morpholinylC₁₋₄alkylamino, morpholinylC₁₋₄alkylaminoC₁₋₄alkyl, piperazinyl,

 C₁₋₄alkylpiperazinyl, C₁₋₄alkylpiperazinylC₁₋₄alkyloxy, piperazinylC₁₋₄alkyl,

 C₁₋₄alkylpiperazinylC₁₋₄alkyl, C₁₋₄alkylpiperazinylC₁₋₄alkylamino,
- $C_{1\text{-4}alkylpiperazinyl}C_{1\text{-4}alkylamino}C_{1\text{-6}alkyl}, \text{ tetrahydropyrimidinylpiperazinyl}, \\ \text{ tetrahydropyrimidinylpiperazinyl}C_{1\text{-4}alkyl}, \text{ piperidinylamino}C_{1\text{-4}alkylamino}, \\ \text{ piperidinylamino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkyl}, \\ (C_{1\text{-4}alkylpiperidinyl})(\text{hydroxy}C_{1\text{-4}alkyl})\text{amino}C_{1\text{-4}alkylamino}, \\ (C_{1\text{-4}alkylpiperidinyl})(\text{hydroxy}C_{1\text{-4}alkyl})\text{amino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkyl}, \\ \\ (C_{1\text{-4}alkylpiperidinyl})(\text{hydroxy}C_{1\text{-4}alkyl})\text{amino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkylamino}C_{1\text{-4}alkylamino}C_{$
- pyridinylC₁₋₄alkyloxy, hydroxyC₁₋₄alkylamino, hydroxyC₁₋₄alkylaminoC₁₋₄alkyl, di(C₁₋₄alkyl)aminoC₁₋₄alkylamino, aminothiadiazolyl, aminosulfonylpiperazinylC₁₋₄alkyloxy, or thiophenylC₁₋₄alkylamino; each R⁵ and R⁶ can be placed on the nitrogen in replacement of the hydrogen;

aryl in the above is phenyl, or phenyl substituted with one or more substituents each independently selected from halo, C_{1-6} alkyl, C_{1-6} alkyloxy, trifluoromethyl, cyano or hydroxycarbonyl.

2. A compound as claimed in claim 1 wherein n is 1 or 2; t is 0, 1, 2 or 4; each Q is

; R¹ is -C(O)NH(OH); R² is hydrogen or nitro; -L- is a direct bond or a

bivalent radical selected from C₁₋₆alkanediyl; R⁴ is hydrogen; is a radical

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selected from (a-1),(a-2), (a-3), (a-5), (a-6), (a-11), (a-18), (a-20), (a-21), (a-32), (a-33), (a-47) or (a-51); each s is independently 0, 1, 2, or 4; each R⁵ and R⁶ are independently selected from hydrogen; halo; trihaloC₁₋₆alkyl; C₁₋₆alkyl; C₁₋₆alkyl substituted with aryl and C₃₋₁₀cycloalkyl; C₁₋₆alkyloxy; C₁₋₆alkylcarbonyl; benzofuranyl; naphtalenylsulfonyl; pyridinyl substituted with aryloxy; phenyl; or phenyl substituted with one substituent independently selected from hydroxyC₁₋₄alkyl or morpholinylC₁₋₄alkyl.

- 3. A compound as claimed in claim 1 wherein t is 1, 2, 3, or 4;
- 10 R¹ is -C(O)NR⁷R⁸, -C(O)-C₁₋₆alkanediylSR⁹, -NR¹⁰C(O)N(OH)R⁹,
 -NR¹⁰C(O)C₁₋₆alkanediylSR⁹, -NR¹⁰C(O)C=N(OH)R⁹ or another Zn-chelatinggroup wherein R⁷ and R⁸ are each independently selected from hydrogen, hydroxy,
 hydroxyC₁₋₆alkyl or aminoC₁₋₆alkyl;
 - R² is hydrogen, halo, hydroxy, amino, nitro, C₁₋₆alkyl, C₁₋₆alkyloxy, trifluoromethyl or di(C₁₋₆alkyl)amino;
 - -L- is a direct bond or a bivalent radical selected from C_{1-6} alkanediyl, C_{1-6} alkanediyloxy, amino or carbonyl;
 - R^4 is hydrogen, hydroxy, amino, hydroxy C_{1-6} alkyl, C_{1-6} alkyl, C_{1-6} alkyl, C_{1-6} alkyl, amino C_{1-6} alkyl, amino C_{1-6} alkyl, C_{1-6} alkyl) amino C_{1-6} alkyl;
 - —(A) is a radical selected from (a-1), (a-3), (a-4), (a-5), (a-6), (a-7), (a-8), (a-9), (a-10), (a-11), (a-12), (a-13), (a-14), (a-15), (a-16), (a-17), (a-18), (a-19), (a-20), (a-21), (a-22), (a-23), (a-24), (a-25), (a-26), (a-28), (a-29), (a-30), (a-31), (a-32), (a-33), (a-34), (a-35), (a-36), (a-37), (a-38), (a-39), (a-40), (a-41), (a-42), (a-44), (a-45), (a-46), (a-47), (a-48) and (a-51);

each s is independently 0, 1, 2, 3 or 4;

- R⁵ is hydrogen; halo; hydroxy; amino; nitro; trihaloC₁₋₆alkyl; trihaloC₁₋₆alkyloxy; C₁₋₆alkyloxy; C₁₋₆alkyloxy; C₁₋₆alkyloxycarbonyl; C₁₋₆alkylsulfonyl; hydroxyC₁₋₆alkyl; aryloxy; di(C₁₋₆alkyl)amino; cyano;
- thiophenyl; furanyl; substituted with hydroxyC₁₋₆alkyl; benzofuranyl; imidazolyl; oxazolyl; oxazolyl substituted with aryl and C₁₋₆alkyl;

 C_{1-6} alkyltriazolyl; tetrazolyl; pyrrolidinyl; pyrrolyl; morpholinyl;

 C_{1-6} alkylmorpholinyl; piperazinyl;

C₁₋₆alkylpiperazinyl; hydroxyC₁₋₆alkylpiperazinyl;

35 C₁₋₆alkyloxypiperidinyl; pyrazoly; pyrazolyl substituted with one or two substituents selected from C₁₋₆alkyl or trihaloC₁₋₆alkyl; pyridinyl; pyridinyl substituted with C₁₋₆alkyloxy, aryloxy or aryl; pyrimidinyl; quinolinyl; indole;

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phenyl; or phenyl substituted with one or two substituents independently selected from halo, C₁₋₆alkyl, C₁₋₆alkyloxy or trifluoromethyl;

R⁶ is hydrogen; halo; hydroxy; amino; nitro; trihaloC₁₋₆alkyl; trihaloC₁₋₆alkyloxy; C₁₋₆alkyloxy; C₁₋₆alkylcarbonyl; C₁₋₆alkyloxycarbonyl; C₁₋₆alkylsulfonyl; hydroxyC₁₋₆alkyl; aryloxy; di(C₁₋₆alkyl)amino; cyano; pyridinyl; phenyl; or phenyl substituted with one or two substituents independently selected from halo, C₁₋₆alkyl, C₁₋₆alkyloxy or trifluoromethyl.

- - 5. A compound according to claim 1, 2 and 4 selected from compounds No. 3, No. 4, No. 8, No. 5, No. 7, No. 6 and No. 9.

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	· · · · · · · · · · · · · · · · · · ·
HO-NH N	HO N N N O O O O O O O O O O O O O O O O
C ₂ HF ₃ O ₂ (1:1); Co. No.8	0.83 C ₂ HF ₃ O ₂ ; Co. No.5
HO N N N	HONN
0.79 C ₂ HF ₃ O ₂ ; Co. No.7	0.83 C ₂ HF ₃ O ₂ ; Co. No.6
HO N N N N N N N N N N N N N N N N N N N	
0.47 H ₂ O .1.99 C ₂ HF ₃ O ₂ ; Co. No.9	

- 6. A pharmaceutical composition comprising pharmaceutically acceptable carriers and as an active ingredient a therapeutically effective amount of a compound as claimed in claim 1 to 5.
- 7. A process of preparing a pharmaceutical composition as claimed in claim 6 wherein the pharmaceutically acceptable carriers and a compound as claimed in claim 1 to 5 are intimately mixed.
- 8. A compound as claimed in any of claims 1 to 5 for use as a medicine.
- 9. Use of a compound as claimed in any of claims 1 to 5 for the manufacture of a medicament for the treatment of proliferative diseases.
- 10. A process for preparing a compound as claimed in claim 1, characterized by reacting an intermediate of formula (II) with an appropriate acid, such as for example, trifluoro acetic acid, yielding a hydroxamic acid of formula (I-a), wherein R¹ is -C(O)NH(OH)

$$\begin{array}{c|c} CF_3COOH \\ \hline \\ CF_3COOH \\ \hline \\ R^2 & (II) \\ \hline \\ R^2 & (II) \\ \hline \\ R^1 & CF_3COOH \\ \hline \\ R^2 & (C(R^3)_2)_{\overline{t}} & A \\ \hline \\ R^4 & (C(R^3)_2)_{\overline{t}} & A \\ \hline \\ R^2 & (I-a) \\ \hline \end{array}$$

- 11. A method of detecting or identifying a HDAC in a biological sample comprising detecting or measuring the formation of a complex between a labelled compound as defined in claim (I) and a HDAC.
- 12. A combination of an anti-cancer agents and a HDAC inhibitor as claimed in any of claims 1 to 5.

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